

## GENERAL DESCRIPTION

Up and Running in Stata provides participants with the necessary introductory toolset to enable them to carry out efficient data analysis and data management in Stata in a reproducible manner. The course covers everything from the very basics, in order to get one up and running in Stata, to an overview of the available Stata commands for preliminary data analysis, data management, importing and exporting data formats, merging of databases and the creation of graphs in Stata.

In common with TStat's training philosophy, each individual session is composed of both a theoretical component (in which the techniques and underlying principles behind them are explained), and an applied (hands-on) segment, during which participants have the opportunity to implement the techniques using real data under the watchful eye of the course tutor. Throughout the course, theoretical sessions are reinforced by case study examples, in which the course tutor discusses and highlights potential pitfalls and the advantages of individual techniques.

## TARGET AUDIENCE

This course is invaluable to both professionals and researchers (working in Epidemiology, Business Studies, Marketing and Management, Biostatistics, Economics, Epidemiology, Medicine, Public Health, Social and Political Sciences and Statistics), wishing to use Stata for applied statistical analysis, data management or data visualization.

## PREREQUISITES

Familiarity with PCs and a working knowledge of English.

## PROGRAM

### SESSION I: GETTING STARTED

1. Stata's GUI
2. Stata File formats
3. Interacting with your Operating System from within Stata
4. Working interactively in Stata
  - *Organizing one's work in Stata*
  - *Help*
  - Web resources
  - Updates
  - Downloading user written commands in Stata
5. Interrupting Stata Sessions
6. Loading Stata databases
7. Saving databases in Stata
8. Saving output: the log file
9. Exiting the software

### SESSION II: STATA FUNDAMENTALS

1. Visualizing the data
2. Stata's Syntax
3. Abbreviations in Stata
4. Constrained commands
5. Data Types
6. *Format* command
7. Labels
8. *Value Labels*
9. Summarizing the data:
  - Summary Statistics
  - Statistical Tables
10. The *by* prefix
11. Selecting / eliminating variables - *drop*, *keep*
12. The commands *count* and *sort*
13. Renaming variables - *rename*
14. *display*
15. *assert*
16. Missing Values
17. Create, eliminate, transform data
  - *generate*, *egen*, *replace*, *recode*

### SESSION III: CREATING SIMPLE STATA ROUTINES: DO FILES

### SESSION IV: IMPORTING DATA FROM SPREADSHEETS

1. Importing an Excel file using drop down menus
2. Importing an Excel directly in Stata: *import excel*
3. Importing a text file created from a *spreadsheet*: *insheet*
4. Importing a text file: *import delimited*
5. Importing SPSS databases
6. Verifying the Data
7. Likely Issues:

- Missing values
  - Strings: *encode*, *decode*, *destring*, *tostring*
  - Handling dates
8. Exporting data to ASCII/txt files to be read in spreadsheets: *outsheet*

## SESSION V: MERGING DATA BASES

1. The concepts *master* and *using* databases
2. *append* command
3. Merging data
  - *merge* command
  - Merging one to one by observations
  - Merging one to one using one or more unique identifying variables
  - How do we make sure the identifying variables are unique
  - The system variables *\_merge*
4. *updates* command
5. Use the *append* and *merge* commands
6. The concepts of *wide* and *long* data format

## SESSION VI: GRAPHICS – AN INTRODUCTION

1. Stata graphics
2. *Graph* command syntax
3. Reading, saving and exporting graphs
4. Useful commands
5. Overview of various graph types
6. Personalizing a graph
7. The Graph Editor
8. Combining and overlaying graphs

## COURSE REFERENCES

- A Gentle Introduction to Stata, 6th Ed. StataPress 2018, (Alan Acock)
- Data Analysis Using Stata, 3rd Ed., StataPress 2012, (Ulrich Kohler, Frauke Kreuter)
- Data Management Using Stata: A Practical Handbook, StataPress 2010, (Michael N. Mitchell)

## DATE AND LOCATION

The course will take place in Frankfurt am Main, 2nd-3rd July 2020.

## REGISTRATION FEES

Full-Time Students\*: € 770.00  
Academic: € 1070.00  
Commercial: € 1235.00

\*To be eligible for student price, participants must provide proof of their full-time student status for the current academic year.

Fees are subject to VAT (applied at the current Italian rate of 22%). Under current EU fiscal regulations, VAT will not however be applied to companies, Institutions or Universities providing a valid tax registration number.

Please note that a non-refundable deposit of €100.00 for students and €250.00 for Academic and Commercial participants, is required to secure a place and is payable upon registration. The number of participants is limited to 10. Places, will be allocated on a first come, first serve basis. The course will be officially confirmed, when at least 5 individuals are enrolled.

Course fees cover: teaching materials (handouts, Stata do-files, program templates and datasets to use during the course), a temporary course licence of Stata valid for 30 days from the beginning of the course, light lunch and coffee breaks.

To maximize the usefulness of this training course, we strongly recommend that participants bring their own laptops with them, to enable them to actively participate in the empirical sessions.

Individuals interested in attending this course, must return their completed registration forms to TStat by the 12th June 2020.

Further details regarding our registration procedures, including our commercial terms and conditions, can be found at <https://www.tstattraining.eu/training/up-and-running-stata/>

## CONTACT INFORMATION:

**Monica Gianni**

TStat Training | Kleebergstraße, 8  
D-60322 Frankfurt am Main

TStat S.r.l. | Via Rettangolo, 12-14  
I-67039 Sulmona (AQ)  
T. +39 0864 210101

[www.tstattraining.eu](http://www.tstattraining.eu) | [www.tstat.eu](http://www.tstat.eu) | [training@tstat.eu](mailto:training@tstat.eu)

